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| 09/648,830 | 08/25/2000 | Martin J. Steffensmeier | 00CR002/KE | 6297 |

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Rockwell Collins Inc
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| EXAMINER |
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NGUYEN, KEVIN M

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| ART UNIT | PAPER NUMBER |
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2674

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/648,830

Applicant(s)

STEFFENSMEIER ET AL.

Examiner

Kevin M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is made in response to applicant's argument filed on 04/26/2005. Claims 1-15 are original. Claims 1-15 are currently pending in the application. An action follows below:

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3, 5-8, 10, 12-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Watamoto et al.

4. As to claims 1 and 8, Watamoto et al teaches an image display device 500 (fig. 5) associated with a method, the image display device 500 comprising:

- a. DVD 504 generates a stationary image (a static image).
- b. Deterioration preventor 508 receives information from DVD 504 and TV 506 and generates control signals to each (col. 7, lines 39-41).
- c. A DVD, CD, or video-CD 504 is connected to display unit 502 (col. 7, lines 36-28) defined providing the drive signals to display elements.
- d. A screen burn-in preventor 510 (fig. 5) functions as the image adjustment during reproduction of the CD according to above constitution is described (col.

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6, lines 51-53). Thus, since the wide screen 16:9 aspect ratio picture being modified to full screen 4:3 aspect ratio picture which is too fast, so that the viewers are unable to perceive.

5. As to claims 3, 4, 10 and 11, Watamoto et al teaches a cathode ray tube, a plasma display device or the like may be employed (col. 7, lines 31-33).

6. As to claims 5 and 12, Watamoto et al teaches an image display device 500 (fig. 5) associated with a method, the image display device 500 comprising:

e. DVD 504 generates a stationary image (a static image).

f. Deterioration preventor 508 receives information from DVD 504 and TV 506 and generates control signals to each (col. 7, lines 39-41).

g. A DVD, CD, or video-CD 504 is connected to display unit 502 (col. 7, lines 36-28) defined providing the drive signals to display elements.

h. A screen burn-in preventor 510 (fig. 5) functions as the image adjustment during reproduction of the CD according to above constitution is described (col. 6, lines 51-53).

7. As to claims 6 and 13, Watamoto et al teaches the DVD disc would provide a wide screen displaying a 16:9 aspect ratio picture. Thus, the wide screen defined the image origin for the static image.

8. As to claims 7 and 14, Watamoto et al teaches the screen burn-in preventor 510 (fig. 5) functions as the image adjustment during reproduction of the CD according to above constitution is described (col. 6, lines 51-53).

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9. As to claim 15, Watamoto et al teaches an image display device 500 (fig. 5) comprising:

- i. A display means 502 (fig. 5).
- j. A screen burn-in preventor 510 (fig. 5) functions as the image adjustment during reproduction of the CD according to above constitution is described (col. 6, lines 51-53). Thus, since the wide screen 16:9 aspect ratio picture being modified to full screen 4:3 aspect ratio picture which is too fast, so that the viewers are unable to perceive.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 2 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watamoto et al in view of Toffolo et al (US 5,900,851).

12. As to claims 2 and 9, Watamoto et al teaches all of the claimed limitation of claims 1 and 8, except for the matrix of light emitting diodes.

However, Toffolo et al teaches electroluminescent display panel 22 (see fig. 1) which inherent includes the matrix of light emitting diodes.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to provide electroluminescent display panel 22 which inherent includes the

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matrix of light emitting diodes taught by Toffolo et al for Watamoto et al's display device, because this would prevent screen burn in as taught by Toffolo et al (col. 2, lines 8-9).

13. Claims 4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watamoto et al in view of Marflak et al (US 6,369,851).

14. As to claims 4 and 11, Watamoto et al teaches all of the claimed limitation of claims 1 and 8, except for a field effect display.

However, Marflak et al teaches a flat cathode ray tube 308 (see fig. 3) which inherent includes a field effect display matrix.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to provide the flat cathode ray tube 308 which inherent includes the field effect display matrix taught by Marflak et al for Watamoto et al's display device, because this would minimize burn lines on a display as taught by Marflak et al (see title).

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shen et al (US 6,262,772), Kato (JP 06-332418), and Falkman et al (US 4,677,430) teach a method and an apparatus for preventing display screen burn-in.

Response to Arguments

16. Applicant's arguments filed 04/26/2005 have been fully considered but they are not persuasive.

17. In response to applicant's argument on page 7 that independent claims 1, 8, and 15 recite "the moving of an image so that the movement is imperceptible to a user."

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Examiner is not convinced by Applicant's argument. As stated *infra* with respect to claims 1, 8, and 15, Examiner finds that Watamoto et al disclose "In a television receiver with a CD deck incorporated therein, during reproduction of a CD, the position of an OSD is changed, or the image adjustment value is lowered" (col. 7, lines 24-27).

Watamoto et al further teach "Additionally, in the event that any input is made by the user during reproduction of the CD, since a TV picture may be of importance to the user, the image adjustment value is returned to the original value" (col. 7, lines 11-14).

Thus, Watamoto et al teach "*in the event that any input is made by the user during reproduction of the CD*", a person of ordinary skill in the art to recognize that the user do not pay any attention when "*the position of an OSD is changed, or the image adjustment value is lowered*"; therefore, Watamoto et al teach the limitation of "the moving of an image so that the movement is imperceptible to a user."

18. In response to applicant's argument that dependent claims 2 and 9 only recite the limitation "*the matrix is matrix of light emitting diodes.*" This argument is not persuasive because applicant only argues the limitation in independent claims 1, 8, and 15 recite "the moving of an image so that the movement is imperceptible to a user." Therefore, as stated *supra* with respect to claims 1, 8, and 15, Watamoto et al teach the limitation of "the moving of an image so that the movement is imperceptible to a user."

19. In response to applicant's argument that dependent claims 4 and 11 only recite the limitation "*the field affect display.*" This argument is not persuasive because applicant only argues the limitation in independent claims 1, 8, and 15 recite "the moving of an image so that the movement is imperceptible to a user." Therefore, as

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stated *supra* with respect to claims 1, 8, and 15, Watamoto et al teach the limitation of "the moving of an image so that the movement is imperceptible to a user."

For these reasons, the rejections based on Watamoto et al, Toffolo, and Marflak have been maintained.

Conclusion

20. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

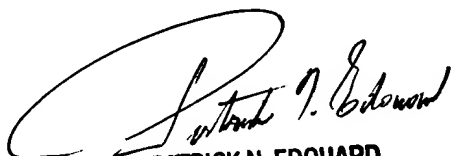
21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Nguyen whose telephone number is 571-272-7697. The examiner can normally be reached on MON-THU from 8:00-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the Patent Application Information Retrieval system, see <http://portal.uspto.gov/external/portal/pair>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Nguyen
Patent Examiner
Art Unit 2674

KMN
June 29, 2005



PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER